



05-24-05

Attorney's Docket No.: 17601-038001 / 067083.0214

ITFW

## UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Joseph A. Zupanick  
Serial No. : 10/769,221  
Filed : January 30, 2004  
Title : METHOD AND SYSTEM FOR TESTING A PARTIALLY FORMED  
HYDROCARBON WELL FOR EVALUATION AND WELL PLANNING  
REFINEMENT

Art Unit : 3672  
Examiner : Hoang C. Dang

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed before the receipt of a first Office Action on the merits. No fees are believed to be due. However, please apply any deficiencies or any other required fees or any credits to deposit account 06-1050, referencing the attorney docket number shown above.

Respectfully submitted,

Date:

5/23/05

Joshua A. Griswold  
Reg. No. 46,310

Fish & Richardson P.C.  
1717 Main Street  
Suite 5000  
Dallas, Texas 75201  
Telephone: (214) 292-4034  
Facsimile: (214) 747-2091

90125296.doc

## CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV618341911US

May 23, 2005

Date of Deposit

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
17601-038001Application No.  
10/769,221**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant  
Joseph A. ZupanickFiling Date  
January 30, 2004Group Art Unit  
3672**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	3,163,211	12/29/1964	D.H. Henley			
	A2	3,578,077	05/11/1971	Glenn, Jr. et al.			
	A3	4,676,313	06/30/1987	Rinaldi			
	A4	4,705,109	11/10/1987	Ledent et al.			
	A5	4,718,485	01/12/1988	Brown et al.			
	A6	4,727,937	03/01/1988	Shum et al.			
	A7	5,016,709	05/21/1991	Combe et al.			
	A8	5,033,550	07/23/1991	Johnson et al.			
	A9	5,115,872	05/26/1992	Brunet et al.			
	A10	5,289,888	03/01/1994	Talley			
	A11	5,343,965	09/06/1994	Talley et al.			
	A12	5,941,307	08/24/1999	Tubel			
	A13	5,944,107	08/31/1999	Ohmer			
	A14	5,988,278	11/23/1999	Johnson			
	A15	6,079,495	06/27/2000	Ohmer			
	A16	6,089,322	07/18/2000	Kelley et al.			
	A17	6,170,571 B1	01/09/2001	Ohmer			
	A18	6,192,988 B1	02/27/2001	Tubel			
	A19	6,199,633 B1	03/13/2001	Longbottom			
	A20	6,247,532 B1	06/19/2001	Ohmer			
	A21	6,263,965 B1	07/24/2001	Schmidt et al.			
	A22	6,283,216 B1	09/04/2001	Ohmer			
	A23	6,318,457 B1	11/20/2001	Den Boer et al.			
	A24	6,491,101 B2	12/10/2002	Ohmer			
	A25	6,554,063 B2	04/29/2003	Ohmer			
	A26	6,557,628 B2	05/06/2003	Ohmer			
	A27	6,564,867 B2	05/20/2003	Ohmer			

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
	Applicant Joseph A. Zupanick		
	Filing Date January 30, 2004	Group Art Unit 3672	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A28	2004/0020655 A1	02/05/2004	Rusby et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	WO 98/25005	06/11/1998	WIPO			N/A	
	B2	WO 2005/003509 A1	01/13/2005	WIPO			N/A	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C1	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Believed to be dated April 1996, pp. 1-11
	C2	Technology Scene Drilling & Intervention Services, "Weatherford Moves Into Advanced Multilateral Well Completion Technology" and "Productivity Gains and Safety Record Speed Acceptance of UBS," <i>Reservoir Mechanics</i> , Weatherford International, Inc., 2000 Annual Report (2 pages)
	C3	Santos, Helio, SPE, Impact Engineering Solutions and Jesus Olaya, Ecopetrol/ICP, "No-Damage Drilling: How to Achieve this Challenging Goal?," SPE 77189, Copyright 2002, presented at the IADC/SPE Asia Pacific Drilling Technology, Jakarta, Indonesia, 09/09-11/2002, 10 pages
	C4	Santos, Helio, SPE, Impact Engineering Solutions, "Increasing Leakoff Pressure with New Class of Drilling Fluid," SPE 78243, Copyright 2002, presented at the SPE/ISRM Rock Mechanics Conference in Irving, Texas, 10/20-23/2002, 7 pages
	C5	Franck Labenski, Paul Reid, SPE, and Helio Santos, SPE, Impact Solutions Group, "Drilling Fluids Approaches for Control of Wellbore Instability in Fractured Formations," SPE/IADC 85304, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Technology Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 8 pages
	C6	P. Reid, SPE, and H. Santos, SPE, Impact Solutions Group, "Novel Drilling, Completion and Workover Fluids for Depleted Zones: Avoiding Losses, Formation Damage and Stuck Pipe," SPE/IADC 85326, Society of Petroleum Engineers, Copyright 2003, presented at the SPE/IADC Middle East Drilling Conference & Exhibition in Abu Dhabi, UAE, 10/20-22/2003, 9 pages
	C7	Craig C. White and Adrian P. Chesters, NAM; Catalin D. Ivan, Sven Maikranz and Rob Nouris, M-I L.L.C., "Aphron-based drilling fluid: Novel technology for drilling depleted formations," WORLD OIL, Drilling Report Special Focus, October 2003, 5 pages
	C8	Robert E. Snyder, "Drilling Advances," WORLD OIL, October 2003, 1 page

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C9	U.S. Environmental Protection Agency, "Directional Drilling Technology," prepared for the EPA by Advanced Resources International under Contract 68-W-00-094, Coalbed Methane Outreach Program (CMOP), published December 2002, Website: <a href="http://search.epa.gov/s97is.vts">http://search.epa.gov/s97is.vts</a> , printed 3/17/2005, 13 pages
	C10	"Meridian Tests New Technology," Western Oil World, June 1990, Cover, Table of Contents and p. 13
	C11	Clint Leazer and Michael R. Marquez, "Short-Radius Drilling Expands Horizontal Well Applications," Petroleum Engineer International, April 1995, 6 pages
	C12	Terry R. Logan, "Horizontal Drainhole Drilling Techniques Used in Rocky Mountains Coal Seams," Geology and Coal-Bed Methane Resources of the Northern San Juan Basin, Colorado and New Mexico, Rocky Mountain Association of Geologists, Coal-Bed Methane, San Juan Basin, 1988, pp. cover, 133-142
	C13	Daniel J. Brunner; Jeffrey J. Schwoebel, and Scott Thomson, "Directional Drilling for Methane Drainage & Exploration in Advance of Mining," Website: <a href="http://www.advmineingtech.com.au/Paper4.htm">http://www.advmineingtech.com.au/Paper4.htm</a> , printed April 6, 2005, Copyright 1999, Last modified August 7, 2002 (8 pages)
	C14	Karen Bybee, highlights of paper SPE 84424, "Coalbed-Methane Reservoir Simulation: An Evolving Science," by T.L. Hower, JPT Online, April 2004, Website: <a href="http://www.spe.org/spe/jpt/jsp/jptpapersynopsis/0,2439,1104_11038_2354946_2395832,00.html">http://www.spe.org/spe/jpt/jsp/jptpapersynopsis/0,2439,1104_11038_2354946_2395832,00.html</a> , printed April 14, 2005, 4 pages
	C15	Kevin Meaney and Lincoln Paterson, "Relative Permeability in Coal," SPE 36986, Society of Petroleum Engineers, Copyright 1996, pp. 231-236
	C16	Calendar of Events – Conference Agenda, Fifth Annual Unconventional Gas and Coalbed Methane Conference, October 22-24, 2003, in Calgary Alberta, Website: <a href="http://www.csug.ca/cal/calc0301a.html">http://www.csug.ca/cal/calc0301a.html</a> , printed March 17, 2005, 5 pages
	C17	Tom Engler and Kent Perry, "Creating a Roadmap for Unconventional Gas R&D," Gas TIPS, Fall 2002, pp. 16-20
	C18	CSIRO Petroleum – SIMEDWin, "Summary of SIMEDWin Capabilities," Copyright 1997-2005, Website: <a href="http://www.dpr.csiro.au/ourcapabilities/petroleumgeoengineering/reservoirengineering/projects/simedwin/assets/simed/index.html">http://www.dpr.csiro.au/ourcapabilities/petroleumgeoengineering/reservoirengineering/projects/simedwin/assets/simed/index.html</a> , printed March 17, 2005, 10 pages
	C19	Solutions From the Field, "Coalbed Methane Resources in the Southeast," Copyright 2004, Website: <a href="http://www.pttc.org/solutions/sol_2004/537.htm">http://www.pttc.org/solutions/sol_2004/537.htm</a> , printed March 17, 2005, 7 pages
	C20	Jeffrey R. Levine, Ph.D., "Matrix Shrinkage Coefficient," Undated, 3 pages
	C21	G. Twombly, S.H. Stepanek, T.A. Moore, "Coalbed Methane Potential in the Waikato Coalfield of New Zealand: A Comparison With Developed Basins in the United States, 2004 New Zealand Petroleum Conference Proceedings, March 7-10, 2004, pp. 1-6
	C22	R.W. Cade, "Horizontal Wells: Development and Applications," Presented at the Fifth International Symposium on Geophysics for Mineral, Geotechnical and Environmental Applications, October 24-28, 1993 in Tulsa, Oklahoma, Website: <a href="http://www.mgls.org/93Sym/Cade/cade.html">http://www.mgls.org/93Sym/Cade/cade.html</a> , printed March 17, 2005, 6 pages
Examiner Signature		Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C23	Solutions From the Field, "Horizontal Drilling, A Technology Update for the Appalachian Basin," Copyright 2004, Website: <a href="http://www.pttc.org/solutions/sol_2004/535.htm">http://www.pttc.org/solutions/sol_2004/535.htm</a> , printed March 17, 2005, 6 pages
	C24	R. Purl, J.C. Evanoff and M.L. Brugler, "Measurement of Coal Cleat Porosity and Relative Permeability Characteristics," SPE 21491, Society of Petroleum Engineers, Copyright 1991, pp. 93-104
	C25	Peter Jackson, "Drilling Technologies for Underground Coal Gasification," IMC Geophysics Ltd., International UCG Workshop – October 2003 (20 pages)
	C26	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/002162 mailed April 22, 2005
	C27	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/005289 mailed April 29, 2005
	C28	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/036616 mailed February 24, 2005
	C29	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (3 pages) for International Application No. PCT/US03/13954 mailed April 14, 2005
	C30	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (5 pages) mailed January 18, 2005 and Written Opinion (8 pages) mailed August 25, 2005 for International Application No. PCT/US03/30126
	C31	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed November 10, 2000 for International Application No. PCT/US99/27494
	C32	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (6 pages) mailed April 2, 2001 and Written Opinion mailed September 27, 2000 for International Application No. PCT/US99/27494
	C33	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed June 6, 2002 for International Application No. PCT/US02/02051
	C34	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (6 pages) mailed March 13, 2003 for International Application No. PC/US02/33128

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	C35	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (3 pages mailed April 22, 2004 and Written Opinion mailed September 4, 2003 for International Application No. PCT/US02/33128

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	